	Application No.	Applicant(s)
	10/654,084	FUJIWARA ET AL.
Notice of Allowability	Examiner	Art Unit
	Matthew B. Smithers	2137
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>02 August 2007</u> .		
2. The allowed claim(s) is/are <u>3-8,11-17,19 and 20</u> .	•	
3. ☐ Acknowledgment is made of a claim for foreign priority u a) ☐ All b) ☐ Some* c) ☐ None of the:		
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submiNFORMAL PATENT APPLICATION (PTO-152) which give	nitted. Note the attached EXAMINE res reason(s) why the oath or decla	R'S AMENDMENT or NOTICE OF ration is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached		
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)	_	
1. Notice of References Cited (PTO-892)	5. Notice of Informal	• •
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summar Paper No./Mail D	
3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4/13/07	7. Examiner's Amen	
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stater	ment of Reasons for Allowance
of Biological Material	9.	
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## **DETAILED ACTION**

## Information Disclosure Statement

The information disclosure statement filed April 18, 2007 has been placed in the application file and the information referred to therein has been considered as to the merits.

## Allowable Subject Matter

Claims 3-8, 11-17 and 19-20 are allowed.

The following is an examiner's statement of reasons for allowance: The present invention is directed to a method and apparatus for enhancing the security of a semiconductor device. Independent claims 1 and 8 recite the uniquely distinct features of "an encryption control section for determining whether to permit execution of each of the sequences which can be executed by the encryption arithmetic processing section, and prohibiting the operation of the encryption arithmetic processing section with respect to a sequence whose execution is determined to be impermissible, wherein the encryption control section includes a mode ID storage register for storing a mode ID; and the encryption control section determines whether to permit execution of each of the sequences based on the value of the mode ID stored in the mode ID storage register". Independent claim 11 recites the uniquely distinct feature of "a program processing section including a through section for inputting/outputting a program as it is, and a program-decryption cryptography engine for receiving an encrypted program from

the external memory, decrypting the encrypted program into a raw (binary) program, and supplying the raw (binary) program to the inside of the semiconductor device". Independent claim 19 recites the uniquely distinct feature of "reading an original content stored in an irreproducible area of an external memory into an LSI device; generating a data inherent key in the LSI device using an inherent ID stored in an internal memory; encrypting the original content in the LSI device using the data inherent key; and storing the encrypted content in a reproducible area of the external memory". The closest prior arts, Nagamasa et al (US 20040177215) and Fujioka (US 20030005321), each disclose conventional semiconductor devices with security processing functionality fails to anticipate or render the above underlined limitations obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew B. Smithers whose telephone number is (571) 272-3876. The examiner can normally be reached on Monday-Friday (8:00-4:30) EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel L. Moise can be reached on (571) 272-3865. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Matthew B Smithers
Primary Examiner
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